

F H W A REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

PROJECT DESCRIPTION

I. GENERAL

This project is located at the intersection of US 15 @ MD 464 in Frederick County, Maryland and involves the installation of an Intersection Control Beacon. US 15 is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

A two circuit flasher with dimmer switch housed in a pole mounted flasher cabinet will be installed at this intersection. Beacons 1, 2, 3, and 4 will have flashing yellow indications. Beacons 5, 6, 7, and 8 will have flashing red indications.

III. SPECIAL NOTES

- It is the responsibility of the contractor to confirm geometrics prior to placing signal equipment.
- The Maryland State Highway Administration District #7 will be given at least seven (7) days notice to perform striping through the intersection area. Contact Mr. Donald Distance at (301) 694-2595 to initiate this operation.
- MOT Plates for this project will be as follows: MD.104.107, 105.00, 105.01, 105.02 and 105.101.

CONSTRUCTION DETAILS

- Install one (1) each: 30' strain pole and 20' lighting arm with 250-watt luminaire with photocell, and 3' Conduit Bend.
- Install one (1) each: 30' strain pole and 20' lighting arm with 250-Watt luminaire with photocell, and two (2) 3' Conduit Bend. Contractor should provided an extra 1 c.y. concrete for the foundation.
- Install pole mounted controller and cabinet.
- Install  $\frac{3}{8}$ " steel span wire with traffic signal heads.
- Proposed underground power feed by Allegany Power. Use three (3) strands 1-cond. No. 4 AWG electrical cable.
- Install handhole.
- Install 3" PVC conduit.
- 24" Pavement Marking Tape.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR:

ITEM NO.	QUANTITY	DESCRIPTION
9042	4 EA	12" ONE-WAY, ONE-SECTION (R) TRAFFIC SIGNAL HEADS HAVING ADJUSTABLE SPAN WIRE HANGER, BALANCE ADJUSTORS AND TUNNEL VISORS.
9042	4 EA	12" ONE-WAY, ONE-SECTION (Y) TRAFFIC SIGNAL HEADS HAVING ADJUSTABLE SPAN WIRE HANGER, BALANCE ADJUSTORS AND TUNNEL VISORS.
9080	1 EA	CABINET INTERSECTION MONITOR, SIZE 5
9087	1 EA	CONTROLLER ASC II W/ TELEMETRY
9090		SHEET ALUMINUM SIGNS TO CONSIST OF:
	4 EA	D3-2 (12' x 63") CATOCTIN MTN HWY" SIGN
	4 EA	D3-2 (12' x 54") PT OF ROCKS RD" SIGN
9092	1 EA	INTERSECTION MONITOR II W/ BATTERY BACKUP

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR:

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2001	1 CY	TEST PIT EXCAVATION
5005	70 LF	FURNISH AND INSTALL 24" WHITE PAVEMENT MARKING TAPE.
5008	70 LF	REMOVE EXISTING PAVEMENT MARKING TAPE - ANY WIDTH.
8001	8 CY	FURNISH AND INSTALL CONCRETE SIGNAL FOUNDATION.
8004	2 EA	FURNISH AND INSTALL 12"x30" STEEL STRAIN POLE
8008	1 EA	FURNISH AND INSTALL 3" WEATHERHEAD
8009	120 LF	FURNISH AND INSTALL $\frac{3}{8}$ " SPAN WIRE
8011	8 EA	INSTALL SIGNAL HEAD (ANY TYPE)
8018	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT, BATTERY BACK UP
8028	645 LF	FURNISH AND INSTALL 3" SCHED. 40 PVC CONDUIT - TRENCHED
8030	25 LF	FURNISH AND INSTALL 3" SCHED. 80 PVC CONDUIT - BORED
8035	2 EA	FURNISH AND INSTALL HANDHOLE
8037	2 EA	FURNISH AND INSTALL GROUND ROD
8047	140 LF	FURNISH AND INSTALL 5-COND. NO. 14 AWG ELECTRICAL CABLE
8048	425 LF	FURNISH AND INSTALL 7-COND. NO. 14 AWG ELECTRICAL CABLE
8049	205 LF	FURNISH AND INSTALL 2-COND. NO. 12 AWG TRAY CABLE
8052	120 LF	FURNISH AND INSTALL #6 BARE COPPER GROUND WIRE
8053	2200 LF	FURNISH AND INSTALL 1-COND. NO. 4 AWG ELECTRICAL CABLE
8056	40 SF	INSTALL OVERHEAD SIGN
8059	2 EA	FURNISH AND INSTALL 250 WATT LUMINAIRE W/ PHOTOCCELL
8060	2 EA	FURNISH AND INSTALL LIGHTING BRACKET ARM FOR SIGNAL STRUCTURES
8065	1 EA	DIGITIZE EXISTING PLANS AND AS-BUILT TRAFFIC CONTROL DEVICES

THE FOLLOWING CONTACT PERSONS FOR DISTRICT # 7 ARE AS FOLLOWS:

Mr. Robert Fisher  
District Engineer  
Phone: (410) 694-2595

Mr. John Concannon  
Assistant District Engineer-Traffic  
Phone: (410) 694-2595

Mr. Leon Kerns  
Assistant District Engineer-Maintenance  
Phone: (410) 694-1966

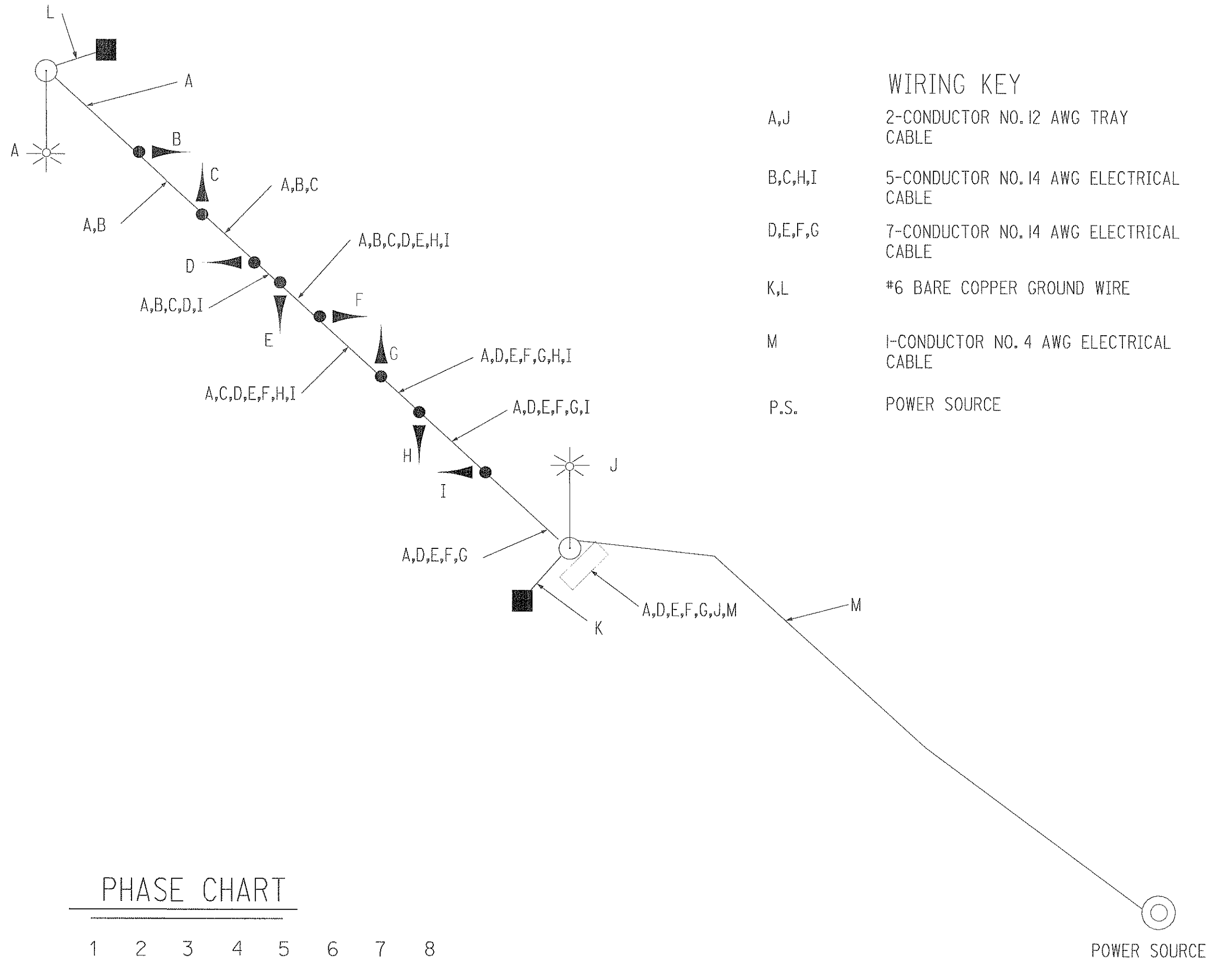
Mr. Jim Brown  
Assistant District Engineer-Utility  
Phone: (410) 694-2145

Mr. Richard L. Daff  
Chief Traffic Operations Division  
Phone: (410) 787-7630

The Power Company Representative is:

MR. KEVIN ADELSBERGER  
ALLEGHENY POWER  
421 EAST PATRICK STREET  
PO BOX 488  
FREDERICK MARYLAND 21705-0488

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8
	Y	Y	Y	Y	R	R	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

PHASING NOTES:

LOG MILE 10001501.40



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION

US 15 & MD. 464  
GENERAL INFORMATION

DRAWN BY: NEM  
CHK. BY: MJW  
SCALE: 8/1/96  
DATE:

F.A.P. NO.  
S.H.A. NO. Aw 105-653  
COUNTY FREDERICK

T.S.  
3626  
OF



JOHNSON, MIRMIRAN, & THOMPSON, P.A.  
72 LOVETON CIRCLE  
SPARKS, MARYLAND 21152  
(410) 329-3100